

Welcome to CIS 114 – Digital Cameras and the Computer

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Course Description:

This course will cover the digital camera, its construction, operation, and relationship with computers. In addition to covering digital cameras the course will cover, applications that organize and edit digital photographs, archiving digital materials, using a scanner to digitize photographic materials and use the digital still camera as a video recorder.

This course will be taught using a series of lectures, discussions, demonstrations and projects.

Required Textbooks:

Better Photo Guide to Digital Photography

Author: Jim Miotke

ISBN-13: 978-0817435523

Supplies:

You will need the following for class

Digital Camera

USB storage devices

Grading

The final grade in this class will be based on the successful completion of all projects, quizzes and a final exam.

The final grade will be based on your accumulated points divided by the total points possible.

A 90% and above

B 80% to 89%

C 70% to 79%

D 60% to 69%

F 59% and below

Projects are graded in two ways, by submission of written work on the D2L system and by visual evaluation of image project.

The course calendar will provide an outline for the class

D2L

The D2L system will be used for all e-mail communication and to submit all written work

Week 1 – 8/22

Introduction to the class

Read Chapter 1: Getting to Know Your Digital Camera

Assignment 1: Bring some of your favorite images to class on your USB drive.

Week 2 – 8/29

Discuss the following

Types of Digital Cameras

Lens Options

The LCD Screen

The Outside of the Camera

The Inside of the Camera

Uploading your images to the My Photos folder on the PC.

Project 1: The Picasa3 program and how to use it to organize your photos.

Read Chapter 2 in the book

No Class on September 5. Labor Day Holiday

Week 3 – 9/12

Discuss the construction of digital cameras.

Read Chapter 3 File Formats, Quality, Settings and Resolution

Week 4 – 9-19

Discuss

Image File formats

Storage devices for images

Camera Resolution

Review Project 1

Project 2: Changing the camera resolution (20 Points)

Read Chapter 4: Exposure

Week 5 – 9-26

Discuss

The Exposure Triangle

ISO

Transfer project 2 pictures to your class computer.

Review Project 2

Project 3: Changing the ISO and viewing its effects

Week 6 – 10/3

Download and organize images from project 3 on to computer.

Discuss

Shutter Speed

Aperture

Exposure Problems

The Histogram

Changing Exposure Settings

Other Ways to Adjust Exposure

Project 4: Alternate ways to Adjust Exposure

Read Chapter 5: Light

Week 7 – 10/10

Download and organize images from project 4 on to computer.

Discuss Chapter 5

The Characteristics of Light

Time of Day

Indoor Light

White Balance

Project 5: Exposure and Lighting

Read Chapter 6: Composition

Week 8 – 10/17

Download and organize images from project 5 on to computer.

Midterm

Discuss Chapter 6

Center of Interest

Digital Zooms

Using Macro Lens and Settings

Rule of Thirds

Vertical VS Horizontal

Cropping in the Camera

Graphic Element

Framing

Project 6: Composing Images: Center of Interest Digital Zoom

Week 9 – 10/24

Download and organize images from project 6 on to computer.

Preparing Your Images for Printing

Project 7: Composing: Rule of Thirds Angle of View

Week 10 – 10/31

Download and organize images from project 7 on to computer.

Using Software to Correct Exposure and other problems.

Project 8 Correcting for Exposure and Framing

Week 11 – 11/7

Printing Photographs

Work and complete Project 8

Week 12 – 11/14

Images and Special Effects

Project 9 Creating Image Special Effects.

Week 13 – 11/21

Work on Project 9 in Class

Organize Special Effects Images.

Week 14 – 11/28

Using a scanner to import pictures.

Week 15 – 12/5

Using your camera to record video.

Using Windows Movie Maker.

Week 16 – 12/12

Review for final.

Make up day for late assignments. All projects due by the end of class.

Week 16 – 12/19

Class Final